ELSEVIER

Journal of Applied Geophysics 32 (1995) 399–400

APPLIED GEOPHYSICS

Contents Volume 32, 1994

Special section: Magnetic Anomalies due to Sulphides (edited by J.-J. Wagner and I.G. Hedley)

Foreword vii
Obituary ix
Publications on iron sulphides xi
Magnetic anomalies due to pyrrhotite in Paleozoic metasediments in Nova Scotia, eastern Canada
E.J. Schwarz and J. Broome 1
Magnetic anomalies due to pyrrhotite: examples from the Cobar area, N.S.W., Australia
D.A. Clark and C. Tonkin 11
Pyrrhotite-induced aeromagnetic anomalies in western Germany
R. Pucher 33
Standard diagrams of magnetic properties and density—a tool for understanding magnetic petrology
H. Henkel 43
Investigation of ferroelectric effects in two sulfide deposits*

Research papers

Investigation of ferroelectric effects in two sulfide deposits C.E. Corry 55
Semi-quantitative geophysical investigation of permafrost in northern Québec
M.-K. Seguin and J. Frydecki 73
A large scale geophysical survey in the archaeological site of Europos (northern Greece)
G.N. Tsokas, A. Giannopoulos, P. Tsourlos, G. Vargemezis, J.M. Tealby, A. Sarris, C.B. Papazachos and T. Savopoulou 85
Inductive resistivity measurement with AC-bridge apparatus
R. Puranen, M. Puranen and K. Sulkanen 99

Research Papers

Seismic reflection techniques for base metal exploration in eastern Canada: examples from Buchans, Newfoundland
C. Wright, J.A. Wright and J. Hall 105
An audiomagnetotelluric study of the Leona Batholith, Senegal
M. Ritz and Y. Bellion 117
Neutron porosity logging and core porosity measurements in the Beauvoir granite, Massif Central Range, France
C. Gallé 125
Use of geoelectrical methods in groundwater pollution surveys in a coastal environment
R.K. Frohlich, D.W. Urish, J. Fuller and M. O'Reilly 139
A geophysical and hydrogeological study of aquifers contamination by a landfill
M. Senos Matias, M. Marques da Silva, P. Ferreira and E. Ramalho 155
Investigation of channel seepage areas at the existing Kaffrein Dam Site (Jordan) using electrical resistivity measurements
N. Abu-Zeid 163
The gravity anomaly of three-dimensional sources characterized by arbitrary surfaces and density distributions
T. Ruotoistenmäki 177
Density in Bouguer anomalies and its consequences
M. Bernabini, P. Favaro and L. Orlando 187
Semiquantitative techniques for the identification and removal of directional trends in potential field data
H.G. Miller and V. Singh 199
Potential field tilt—a new concept for location of potential field sources
H.G. Miller and V. Singh 213

0926-9851/95/$09.50 © 1995 Elsevier Science B.V. All rights reserved
SSDI 0926-9851

Some aspects in inversion of potential field data: a damped approximate inverse approach
B. Narasimha Rao, P. Ramakrishna and A. Markandeyulu 219
A finite difference model for mineral self potentials in complex environments
P. Furness 235
Analyses of wavefields by the common excitation array (CEA) method
M. Bliznetsov and C. Juhlin 245
A statistical method for litho-facies identification
L. Coudert, M. Frappa and R. Arias 257
Correlation filtering: a terrain correction method for aeromagnetic maps with application
P.S. Naidu and M.P. Mathew 269
Subsurface radionuclide investigation of a nuclear test
M. Mathews, K. Hahn, J. Thompson, L. Gadeken and W. Madigan 279

Research Papers
A study of the design of inclined wellbores with regard to both mechanical stability and fracture intersection, and its application to the Australian North West Shelf
S. Zhou, R. Hillis and M. Sandiford 293
Seawater intrusion and fresh groundwater hydraulics in fjord delta aquifers inferred from ground penetrating radar and resistivity profiles—Sunndalsøra and Esebotn, western Norway
O. Soldal, E. Mauring, E. Halvorsen and N. Rye 305
Prediction of thermal conductivity in reservoir rocks using fabric theory
M. Luo, J.R. Wood and L.M. Cathles 321
Vertical increase in seismic velocity with depth in shallow crystalline bedrock
O. Okko 335
Ray tomography: errors and error functions
J.C. Santamarina and A.C. Reed 347
Two-dimensional, regularised inversion of VLF data
D. Beamish 357
Invariants for correcting field polarisation effect in MT-VLF resistivity mapping
R. Guérin, A. Tabbagh, Y. Benderitter and P. Andrieux 375
Geoelectrical survey of structures closed in depth by two dipping discontinuities
M. Bernabini and E. Cardarelli 385

Obituary 393

Erratum 395

Call for Papers 397